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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,466	07/16/2003	Chin-Ching Li	BHT-3214-70	7356	
7590 05/03/2005			EXAM	EXAMINER	
TROXELL LAW OFFICE PLLC			MCKINNON, TERRELL L		
SUITE 1404 5205 LEESBUI	RG PIKE		ART UNIT	PAPER NUMBER	
FALLS CHURCH, VA 22041			3743		
			DATE MAILED: 05/03/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>\theta\\left\text{\ti}\}\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\tett{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\texit{\texit{\text{\texi}\text{\text{\texi}\text{\texit{\texit{\texi}\text{\tint{\texit{\tex{\texit{\texi{\texi{\texi{\texi{\texi}\texi{\texi{\texi{\t</i>					
	Application No.	Applicant(s)					
	10/619,466	LI, CHIN-CHING					
Office Action Summary	Examiner	Art Unit					
	Terrell L Mckinnon	3743					
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet wit	h the correspondence address					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3' after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a re ation. ays, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. ANDONED (35 U:S.C. § 133).					
Status							
1) Responsive to communication(s) filed o	on <u>16 July 2003</u> .						
2a) This action is FINAL . 2b)	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice of	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of the above claim(s) is/are v	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	Claim(s) are subject to restriction and/or election requirement.						
Application Papers	,						
9)☐ The specification is objected to by the E	xaminer.						
10)⊠ The drawing(s) filed on <u>16 July 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in Ap he priority documents have been r Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	ummary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-1948)							
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 	6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Murphy et al. (U.S. 4,776,389).

Murphy discloses a method and apparatus for evacuating and filling heat pipes comprising all of the applicant's claimed and disclosed limitations of the instant invention (column 3, lines 5-36).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy et al. (U.S. 4,776,389) in view of Luo (U.S. 6,827,133).

Murphy's invention discloses all of the claimed limitations from above except for the bottom of the hollow pipe is integrally connected therebeneath with a plate to render Application/Control Number: 10/619,466

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the hollow pipe to be welded onto the plate to increase heat-sinking effect; and the hollow pipe is connected therebeneath with a heat-producing article when in use.

5. However, Luo teaches the bottom of the hollow pipe being integrally connected therebeneath with a plate to render the hollow pipe to be welded onto the plate to increase heat-sinking effect; and the hollow pipe is connected therebeneath with a heat-producing article when in use.

Given the teachings of Luo, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the heat pipe of Murphy with the bottom of the hollow pipe being integrally connected therebeneath with a plate to render the hollow pipe to be welded onto the plate to increase heat-sinking effect; and the hollow pipe is connected therebeneath with a heat-producing article when in use.

Doing so would provide a thermally efficient heat pipe for dissipating heat from heat generating objects.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references cited on the USPTO 892 discloses related limitations of the applicant's claimed and disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell L Mckinnon whose telephone number is 571-272-4797. The examiner can normally be reached on Monday -Thursday and every other Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Terrell L Mckinnon
Primary Examiner
Art Unit 3743

May 2, 2005